

CLAIMS

It is claimed:

1 1. In a wireless network system comprising a wired backbone network, an
2 access point, and one or more associated wireless unit data coupled to the access point
3 by way of a wireless transmission medium, a method of enabling fragmentation of data
4 packet above a fragmentation threshold in said one or more wireless units, comprising
5 transmitting a message to said one or more wireless unit having a first control data that
6 causes said one or more wireless units to implement fragmentation threshold in
7 transmitting data packets to said access point.

1 2. The method of claim 1, wherein said message comprises a multicast data
2 packet intended for said one or more associated wireless units.

1 3. The method of claim 1, wherein said message further includes a
2 specified fragmentation threshold to be used by said one or more wireless units.

1 4. The method of claim 1, wherein said message further includes a second
2 control data that causes said one or more wireless units to use request to send (RTS)
3 and clear to send (CTS) in the transmission of data to said access point.

1 5. An access point having a logic circuit to transmit a message to one or
2 more associated wireless unit, wherein said message includes a first control data that
3 causes said one or more associated wireless units to implement fragmentation threshold
4 in transmitting data packets to said access point.

1 6. The access point of claim 5, wherein said message comprises a multicast
2 data packet intended for said one or more associated wireless units.

1 7. The access point of claim 5, wherein said message further includes a
2 specified fragmentation threshold to be used by said one or more wireless units.

1 8. The access point of claim 5, wherein said message further includes a
2 second control data that causes said one or more wireless units to use request to send
3 (RTS) and clear to send (CTS) in the transmission of data to said access point.

1 9. A machine readable medium including a software routine to control a
2 logic circuit to transmit a message to one or more associated wireless unit, wherein said
3 message includes a first control data that causes said one or more associated wireless
4 units to implement fragmentation threshold in transmitting data packets to said access
5 point.

1 10. The machine readable medium of claim 9, wherein said message
2 comprises a multicast data packet intended for said one or more associated wireless
3 units.

1 11. The machine readable medium of claim 9, wherein said message further
2 includes a specified fragmentation threshold to be used by said one or more wireless
3 units.

1 12. The machine readable medium of claim 9, wherein said message further
2 includes a second control data that causes said one or more wireless units to use request
3 to send (RTS) and clear to send (CTS) in the transmission of data to said access point.

1 13. A wireless unit, comprising:
2 a wireless transceiver to communicate with an access point via a wireless
3 transmission medium; and
4 a logic circuit to receive a message from said access point by way of said
5 wireless transceiver, wherein said message includes a first control data that causes said
6 logic circuit to implement fragmentation threshold in transmitting data packets to said
7 access point.

1 14. The wireless unit of claim 13, wherein said message comprises a
2 multicast data packet.

1 15. The wireless unit of claim 13, wherein said message further includes a
2 specified fragmentation threshold to be used by said logic circuit in implementing said
3 fragmentation threshold.

1 16. The wireless unit of claim 13, wherein said message further includes a
2 second control data that causes said logic circuit to use request to send (RTS) and clear
3 to send (CTS) in the transmission of data to said access point.

1 17. In a wireless network system comprising a wired backbone network, an
2 access point, and one or more associated wireless unit data coupled to the access point
3 by way of a wireless transmission medium, a method of enabling request to send (RTS)
4 and clear to send (CTS) data transmission in said one or more wireless units,
5 comprising transmitting a message to said one or more wireless unit having a first
6 control data that causes said one or more wireless units to implement RTS/CTS in
7 transmitting data packets to said access point.

1 18. The method of claim 17, wherein said message comprises a multicast
2 data packet intended for said one or more associated wireless units.

1 19. The method of claim 17, wherein said message further includes a second
2 control data that causes said one or more wireless units to implement fragmentation
3 threshold in transmitting data packets to said access point.

1 20. The method of claim 19, wherein said message further includes a
2 specified fragmentation threshold to be used by said one or more wireless units.

1 21. An access point having a logic circuit to transmit a message to one or
2 more associated wireless unit, wherein said message includes a first control data that

3 causes said one or more associated wireless units to implement RTS/CTS in
4 transmitting data packets to said access point.

1 22. The access point of claim 21, wherein said message comprises a
2 multicast data packet intended for said one or more associated wireless units.

1 23. The access point of claim 21, wherein said message further includes a
2 second control data that causes said one or more wireless units to implement
3 fragmentation threshold in transmitting data packets to said access point.

1 24. The access point of claim 23, wherein said message further includes a
2 specified fragmentation threshold to be used by said one or more wireless units.

1 25. A machine readable medium including a software routine to control a
2 logic circuit to transmit a message to one or more associated wireless unit, wherein said
3 message includes a first control data that causes said logic circuit to implement
4 RTS/CTS in transmitting data packets to said access point.

1 26. The machine readable medium of claim 25, wherein said message
2 comprises a multicast data packet intended for said one or more associated wireless
3 units.

1 27. The machine readable medium of claim 25, wherein said message
2 further includes a second control data that causes said one or more wireless units to
3 implement fragmentation threshold in transmitting data packets to said access point.

1 28. The machine readable medium of claim 27, wherein said message
2 further includes a specified fragmentation threshold to be used by said one or more
3 wireless units.

1 29. A wireless unit, comprising:
2 a wireless transceiver to communicate with an access point via a wireless
3 transmission medium; and
4 a logic circuit to receive a message from said access point by way of said
5 wireless transceiver, wherein said message includes a first control data that causes said
6 one or more associated wireless units use request to send (RTS) and clear to send
7 (HTS) in the transmission of data to said access point.

1 30. The wireless unit of claim 29, wherein said message comprises a
2 multicast data packet.

1 31. The wireless unit of claim 29, wherein said message further includes a
2 second control data that causes said logic circuit to implement fragmentation threshold
3 in transmitting data packets to said access point.

1 32. The wireless unit of claim 31, wherein said message further includes a
2 specified fragmentation threshold to be used by said logic circuit in implementing
3 fragmentation threshold,